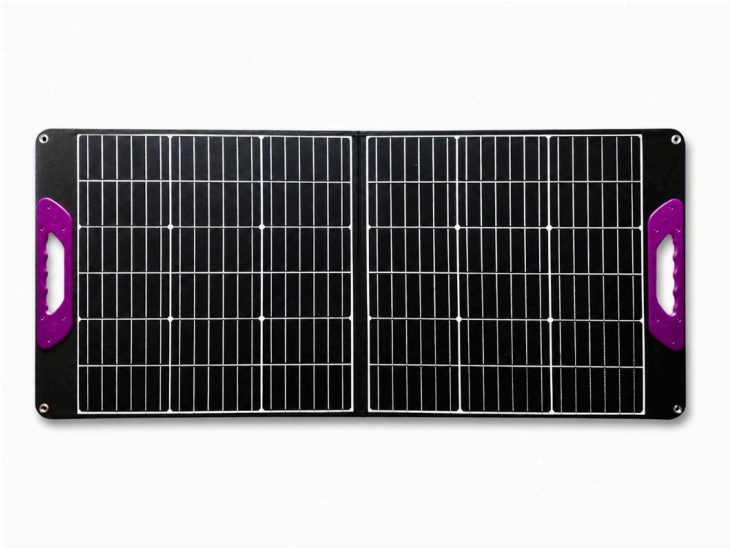
EN

VOGIO®

SP120

Foldable solar panel

User manual



120 W maximum power	**ETFE** monocrystalline cells	**IP65** dustproof, water-resistant	**5.2 kg** weight

Read this manual carefully before use and follow its instructions. Keep it for future reference.

EN

This manual is also available in other languages at vogio.pl.

MADE IN CHINA

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Safety and preparation

1. Intended use

The VOGIO SP120 panel is designed to charge compatible power stations, charge controllers and other devices with a PV/DC input that supports the panel's parameters.

> **CAUTION**
> Before connecting, check the maximum PV input voltage and the permissible current in the manual of the device being charged. Do not exceed these values.

2. Safety instructions

- Do not disassemble the panel, cut the cables or modify the connectors.
- Do not use the panel if its insulation is damaged, its surface is cracked, its connectors are loose or it shows visible signs of damage.
- Do not bend the panel excessively, crush it, walk on it or place heavy objects on it.
- Protect the panel surface from scratches by sharp objects, as well as from impacts and falls.
- Do not short-circuit the MC4 connectors or touch the metal contacts while the panel is operating.
- Do not immerse the panel in water or other liquids. Do not leave it in the rain longer than necessary.
- Do not use or store the panel near fire, heaters, high-temperature sources or corrosive substances.
- During use, make sure the panel surface is not shaded by trees, buildings or other obstacles.
- In strong wind, secure the panel against tipping over, or stop using it and store it in a safe place.
- This product is not a toy – keep it out of the reach of children.
- While charging, keep the power station or other device being charged away from direct sunlight, heat sources and moisture.

3. Before first use

- Check the panel, cable and MC4 connectors for damage.
- Before connecting, make sure the PV/DC input parameters of the device being charged match the panel's parameters.
- Do not connect the panel if the voltage, current or power of the setup may exceed the permissible input values of the device being charged.
- Unfold the panel on a stable, dry surface in a sunny spot, secured against tipping over.

Technical data

Technical specifications[1]	
Model	VOGIO SP120
Maximum power (Pmax)	120 W
Cells / lamination	monocrystalline / ETFE
Section layout	2 × 60 W – parallel connection
Vmp / Imp	19.47 V / 6.20 A
Voc / Isc	23.40 V / 6.70 A
Unfolded dimensions	1210 × 630 × 25 mm
Folded dimensions	595 × 630 × 50 mm
Cable	approx. 3 m, MC4 connectors
Protection rating	IP65 – dustproof, protected against water jets
Weight	5.2 kg

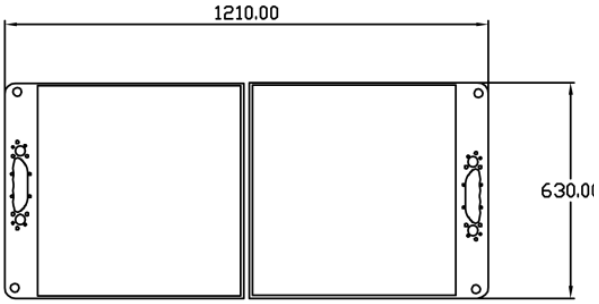


Figure 1. Panel unfolded



Figure 2. Panel folded

[1] The technical parameters were determined under laboratory conditions (STC) and may differ from the results achieved during everyday use of the panel.

Operation and service

4. Positioning and connection

- Position the panel perpendicular to the sun's rays (at an angle of approx. 90°).
- Avoid shading any part of the panel.
- First unfold the panel and set it up securely, then connect the MC4 connectors.
- When connecting several panels, add up the voltage and current of the setup and do not exceed the permissible values of the device being charged.

5. Cleaning and maintenance

- Clean the panel with a soft, slightly damp cloth. Do not use solvents, pressure washers or abrasive cleaners.
- The panel must be dry and cool before folding.
- Store the panel in a dry place, away from heat sources and sharp objects.

6. Troubleshooting

Problem	What to do
No charging	Check the device's PV input compatibility, the cable and the MC4 connectors.
Low charging power	Remove shade, adjust the angle and clean the panel surface.
Charging interrupts	Set the panel up securely and check the connections.

7. Warranty and disposal

- The product is covered by a 24-month manufacturer's warranty, unless the seller's offer terms, the warranty card or other provisions specify a longer period of protection.
- Claims are processed on the basis of proof of purchase and the applicable warranty terms. Prepare the proof of purchase, a description of the problem and photos of the product, cables and connectors.
- The warranty does not cover damage resulting from improper use, mechanical damage, water ingress, falls, alterations, modification of the cables or connectors, or use of the product contrary to this manual.
- Do not dispose of the used product with household waste. Take it to a collection point for waste electrical and electronic equipment.

CONTACT AND SERVICE
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